| L Number | Hits | Search Text | DB | Time stamp |
|---|---|---|---|---|
| 4 | 41 | (101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.) and @pd>=20040327 | USPAT; US-PGPUB | 2004/07/16 09:04 |
| 5 | 338 | 101/219.ccls. not (101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.) | USPAT; US-PGPUB | 2004/07/16 09:17 |
| 6 | 22 | (101/219.ccls. not (101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.)) and temper$6 | USPAT; US-PGPUB | 2004/07/16 09:06 |
| 7 | 316 | (101/219.ccls. not (101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.)) not ((101/219.ccls. not (101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.)) and temper$6) | USPAT; US-PGPUB | 2004/07/16 09:06 |
| 8 | 568 | 101/375.ccls. not (101/219.ccls. or 101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.) | USPAT; US-PGPUB | 2004/07/16 09:27 |
| 9 | 54 | (101/375.ccls. not (101/219.ccls. or 101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.)) and temper$6 | USPAT; US-PGPUB | 2004/07/16 09:26 |
| 10 | 514 | (101/375.ccls. not (101/219.ccls. or 101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.)) not ((101/375.ccls. not (101/219.ccls. or 101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.)) and temper$6) | USPAT; US-PGPUB | 2004/07/16 09:26 |
| 11 | 256 | 101/376.ccls. not (101/375.ccls. or 101/219.ccls. or 101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.) | USPAT; US-PGPUB | 2004/07/16 09:35 |
| 12 | 560 | 101/409.ccls. not (101/376.ccls. or 101/375.ccls. or 101/219.ccls. or 101/216.ccls. or 101/217.ccls. or 101/348.ccls. or 101/349.1.ccls. or 101/487.ccls. or 101/488.ccls. or 492/46.ccls. or 165/89.ccls.) | USPAT; US-PGPUB | 2004/07/16 09:36 |
| - | 1 | 4617864.pn. | USPAT; US-PGPUB | 2003/04/09 13:54 |
| - | 1 | 5595115.pn. | USPAT; US-PGPUB | 2003/04/09 13:56 |
| - | 1 | 5784957.pn. | USPAT; US-PGPUB | 2003/04/09 13:56 |
| - | 2 | EP-557245-$.did. | EPO; JPO; DERWENT | 2003/04/09 13:57 |
| - | 1 | EP-652104-$.did. | EPO; JPO; DERWENT | 2003/04/09 13:58 |

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|---|---:|---|---|---|
| - | 1 | DE-3439090-$.did. | EPO; JPO; DERWENT | 2003/04/09 13:58 |
| - | 2 | DE-19712446-$.did. | EPO; JPO; DERWENT | 2003/04/09 13:59 |
| - | 1 | JP-01249449-$.did. | EPO; JPO; DERWENT | 2003/04/09 13:59 |
| - | 47 | 101/335-367.ccls. and (temperature with fluid) | USPAT; US-PGPUB | 2003/04/09 15:08 |
| - | 272 | 101/$.ccls. and (cylinder with temperature) | USPAT; US-PGPUB | 2003/04/10 08:43 |
| - | 69 | 101/348.ccls. and (temperature or cooling) | USPAT; US-PGPUB | 2003/04/10 08:45 |
| - | 488 | 101/348.ccls. | USPAT; US-PGPUB | 2003/04/10 08:50 |
| - | 419 | 101/348.ccls. not (101/348.ccls. and (temperature or cooling)) | USPAT; US-PGPUB | 2003/04/10 08:51 |
| - | 688 | 101/216.ccls. | USPAT; US-PGPUB | 2003/04/10 09:03 |
| - | 64 | 101/216.ccls. and (temperature or cooling) | USPAT; US-PGPUB | 2003/04/10 09:06 |
| - | 624 | 101/216.ccls. not (101/216.ccls. and (temperature or cooling)) | USPAT; US-PGPUB | 2003/09/19 14:25 |
| - | 3 | 4617864.URPN. | USPAT | 2003/04/10 09:29 |
| - | 22 | 5074213.URPN. | USPAT | 2003/04/10 09:29 |
| - | 11 | ("0630727" \| "0695041" \| "1672036" \| "3064563" \| "3425488" \| "3473603" \| "3704669" \| "4093023" \| "4351386" \| "4440214" \| "4501955").PN. | USPAT | 2003/04/10 09:36 |
| - | 0 | 101/$.ccls. and (sprial with multi$4) | USPAT; US-PGPUB | 2003/04/10 09:43 |
| - | 37 | 101/$.ccls. and multiplex | USPAT; US-PGPUB | 2003/04/10 09:50 |
| - | 1 | cylinder with (spiral or helix or helical) with multiplex | USPAT; US-PGPUB | 2003/04/10 09:55 |
| - | 170 | cylinder with (spiral or helix or helical) with multi$3 | USPAT; US-PGPUB | 2003/04/10 10:12 |
| - | 132 | 165/$.ccls. and (cylinder with (spiral or helical or helix)) | USPAT; US-PGPUB | 2003/04/10 10:25 |
| - | 151 | 165/$.ccls. and (multi$4 with (spiral or helical or helix)) | USPAT; US-PGPUB | 2003/04/10 10:26 |
| - | 137 | (165/$.ccls. and (multi$4 with (spiral or helical or helix))) not (165/$.ccls. and (cylinder with (spiral or helical or helix))) | USPAT; US-PGPUB | 2003/04/10 11:48 |
| - | 3 | 089070.ap. | USPAT; US-PGPUB | 2003/04/10 11:48 |
| - | 1 | 6105651.pn. | USPAT; US-PGPUB | 2003/04/10 13:29 |
| - | 1 | 4071081.pn. | USPAT; US-PGPUB | 2003/04/10 13:31 |
| - | 1 | 5881643.pn. | USPAT; US-PGPUB | 2003/04/10 13:31 |
| - | 1 | 5813334.pn. | USPAT; US-PGPUB | 2003/04/10 13:32 |
| - | 1 | 4074750.pn. | USPAT; US-PGPUB | 2003/04/10 13:32 |
| - | 317 | 101/217.ccls. | USPAT; US-PGPUB | 2003/04/10 13:33 |
| - | 31 | 101/217.ccls. and temperature | USPAT; US-PGPUB | 2003/04/10 13:34 |
| - | 286 | 101/217.ccls. not (101/217.ccls. and temperature) | USPAT; US-PGPUB | 2003/04/10 13:37 |
| - | 303 | 492/46.ccls. | USPAT; US-PGPUB | 2003/04/10 13:51 |
| - | 477 | 101/487.ccls. or 101/488.ccls. | USPAT; US-PGPUB | 2004/03/26 14:20 |
| - | 129 | 101/349.1.ccls. | USPAT; US-PGPUB | 2003/04/10 14:01 |
| - | 18 | 3847212.URPN. | USPAT | 2003/09/04 08:14 |

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|---|---|---|---|---|
| - | 8 | 5595115.URPN. | USPAT | 2003/09/04 08:19 |
| - | 1 | 6220161.URPN. | USPAT | 2003/09/04 08:21 |
| - | 12 | ("1820074" \| "1837562" \| "2650034" \| "2875985" \| "4090553" \| "4093023" \| "4183298" \| "4774771" \| "4920881" \| "5595115" \| "5694848" \| "5881643").PN. | USPAT | 2003/09/04 08:21 |
| - | 1 | 1813142.pn. | USPAT | 2003/09/19 14:05 |
| - | 1 | 2015747.pn. | USPAT | 2003/09/19 14:05 |
| - | 1 | 2531998.pn. | USPAT | 2003/09/19 14:05 |
| - | 14 | 101/$.ccls. and ((heat adj (transfer or exchange)) adj (cylinder or roll or roller)) | USPAT; US-PGPUB | 2003/09/19 14:29 |
| - | 6 | 165/89.ccls. and (area with turbul$4) | USPAT; US-PGPUB | 2003/09/19 14:45 |
| - | 114 | 165/89.ccls. and (area) | USPAT; US-PGPUB | 2003/09/19 14:47 |
| - | 26 | 165/89.ccls. and (turbul$4) | USPAT; US-PGPUB | 2003/09/19 14:45 |
| - | 31 | 165/89.ccls. and (area with section$2) | USPAT; US-PGPUB | 2003/09/20 14:28 |
| - | 15 | 4252184.URPN. | USPAT | 2003/09/20 14:25 |
| - | 44 | 165/$.ccls. and 101/$.ccls. | USPAT; US-PGPUB | 2003/09/20 14:28 |
| - | 11 | ("3704669" \| "4440082" \| "4821640" \| "4903599" \| "4913048" \| "5065675" \| "5074213" \| "5189960" \| "5215013" \| "5241905" \| "5309838").PN. | USPAT | 2003/09/20 15:28 |
| - | 1 | 6688223.pn. | USPAT; US-PGPUB | 2004/03/25 17:09 |
| - | 6 | 5784957.URPN. | USPAT | 2004/03/25 18:02 |
| - | 8 | ("4821640" \| "4903599" \| "4913048" \| "5074213" \| "5178064" \| "5241905" \| "5309838" \| "5535674").PN. | USPAT | 2004/03/25 18:03 |
| - | 12 | 2875985.URPN. | USPAT | 2004/03/25 18:07 |
| - | 36 | (US-5676754-$ or US-4440214-$ or US-4451960-$ or US-4492088-$ or US-5713216-$ or US-6139528-$ or US-5409057-$ or US-RE32169-$ or US-4232733-$ or US-3768291-$ or US-3826304-$ or US-3847212-$ or US-6105651-$ or US-4071081-$ or US-5292298-$ or US-4090553-$ or US-5595115-$ or US-4617864-$ or US-5784957-$ or US-4183298-$ or US-6220161-$ or US-6109177-$ or US-5881643-$ or US-5571563-$ or US-5571564-$ or US-4712475-$).did. or (US-4086691-$ or US-4077466-$ or US-4252184-$ or US-6688223-$).did. or (EP-557245-$).did. or (JP-01249449-$).did. or (EP-557245-$ or EP-652104-$ or DE-3439090-$ or DE-19712446-$).did. | USPAT; EPO; JPO; DERWENT | 2004/03/25 18:12 |

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|---|---|---|---|---|
| – | 14 | ((US-5676754-$ or US-4440214-$ or US-4451960-$ or US-4492088-$ or US-5713216-$ or US-6139528-$ or US-5409057-$ or US-RE32169-$ or US-4232733-$ or US-3768291-$ or US-3826304-$ or US-3847212-$ or US-6105651-$ or US-4071081-$ or US-5292298-$ or US-4090553-$ or US-5595115-$ or US-4617864-$ or US-5784957-$ or US-4183298-$ or US-6220161-$ or US-6109177-$ or US-5881643-$ or US-5571563-$ or US-5571564-$ or US-4712475-$).did. or (US-4086691-$ or US-4077466-$ or US-4252184-$ or US-6688223-$).did. or (EP-557245-$).did. or (JP-01249449-$).did. or (EP-557245-$ or EP-652104-$ or DE-3439090-$ or DE-19712446-$).did.) and thin | USPAT; US-PGPUB | 2004/03/25 18:13 |
| – | 10 | 5595115.URPN. | USPAT | 2004/03/25 18:14 |
| – | 11 | (((US-5676754-$ or US-4440214-$ or US-4451960-$ or US-4492088-$ or US-5713216-$ or US-6139528-$ or US-5409057-$ or US-RE32169-$ or US-4232733-$ or US-3768291-$ or US-3826304-$ or US-3847212-$ or US-6105651-$ or US-4071081-$ or US-5292298-$ or US-4090553-$ or US-5595115-$ or US-4617864-$ or US-5784957-$ or US-4183298-$ or US-6220161-$ or US-6109177-$ or US-5881643-$ or US-5571563-$ or US-5571564-$ or US-4712475-$).did. or (US-4086691-$ or US-4077466-$ or US-4252184-$ or US-6688223-$).did. or (EP-557245-$).did. or (JP-01249449-$).did. or (EP-557245-$ or EP-652104-$ or DE-3439090-$ or DE-19712446-$).did.) and thin) not (((US-5676754-$ or US-4440214-$ or US-4451960-$ or US-4492088-$ or US-5713216-$ or US-6139528-$ or US-5409057-$ or US-RE32169-$ or US-4232733-$ or US-3768291-$ or US-3826304-$ or US-3847212-$ or US-6105651-$ or US-4071081-$ or US-5292298-$ or US-4090553-$ or US-5595115-$ or US-4617864-$ or US-5784957-$ or US-4183298-$ or US-6220161-$ or US-6109177-$ or US-5881643-$ or US-5571563-$ or US-5571564-$ or US-4712475-$).did. or (US-4086691-$ or US-4077466-$ or US-4252184-$ or US-6688223-$).did. or (EP-557245-$).did. or (JP-01249449-$).did. or (EP-557245-$ or EP-652104-$ or DE-3439090-$ or DE-19712446-$).did.) and thin$1wall$2) | USPAT; US-PGPUB | 2004/03/26 11:03 |

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|---|---|---|---|---|
| – | 3 | ((US-5676754-$ or US-4440214-$ or US-4451960-$ or US-4492088-$ or US-5713216-$ or US-6139528-$ or US-5409057-$ or US-RE32169-$ or US-4232733-$ or US-3768291-$ or US-3826304-$ or US-3847212-$ or US-6105651-$ or US-4071081-$ or US-5292298-$ or US-4090553-$ or US-5595115-$ or US-4617864-$ or US-5784957-$ or US-4183298-$ or US-6220161-$ or US-6109177-$ or US-5881643-$ or US-5571563-$ or US-5571564-$ or US-4712475-$).did. or (US-4086691-$ or US-4077466-$ or US-4252184-$ or US-6688223-$).did. or (EP-557245-$).did. or (JP-01249449-$).did. or (EP-557245-$ or EP-652104-$ or DE-3439090-$ or DE-19712446-$).did.) and thin$1wall$2 | USPAT; US-PGPUB | 2004/03/26 11:10 |
| – | 134 | 101/$.ccls. and thin$1wall$2 | USPAT; US-PGPUB | 2004/03/26 12:46 |
| – | 6 | (US-3473603-$ or US-1837562-$ or US-2875985-$ or US-2650034-$ or US-1813142-$ or US-2015747-$).did. | USOCR | 2004/03/26 11:16 |
| – | 3 | ((US-3473603-$ or US-1837562-$ or US-2875985-$ or US-2650034-$ or US-1813142-$ or US-2015747-$).did.) and thin | USOCR | 2004/03/26 11:16 |
| – | 573 | 165/89.ccls. | USPAT; US-PGPUB | 2004/03/26 12:46 |
| – | 23 | 165/89.ccls. and (thin with wall$2) | USPAT; US-PGPUB | 2004/03/26 12:46 |
| – | 15 | (165/89.ccls. and (thin with wall$2)) not (165/89.ccls. and thin$1wall$2) | USPAT; US-PGPUB | 2004/03/26 12:46 |
| – | 354 | 101/$.ccls. and (thin with wall$2) | USPAT; US-PGPUB | 2004/03/26 12:46 |
| – | 225 | (101/$.ccls. and (thin with wall$2)) not (101/$.ccls. and thin$1wall$2) | USPAT; US-PGPUB | 2004/03/26 12:46 |
| – | 8 | 165/89.ccls. and thin$1wall$2 | USPAT; US-PGPUB | 2004/03/26 12:46 |
| – | 4 | 089071.ap. | USPAT; US-PGPUB | 2004/03/26 13:11 |
| – | 3 | 6109177.URPN. | USPAT | 2004/03/26 14:16 |
| – | 16 | ("3888173" \| "4183298" \| "4290363" \| "4534289" \| "4570539" \| "4964337" \| "5046420" \| "5074213" \| "5189960" \| "5272971" \| "5309838" \| "5406886" \| "5517919" \| "5595115" \| "5694848" \| "5823108").PN. | USPAT | 2004/03/26 14:16 |
| – | 315 | 101/487.ccls. | USPAT; US-PGPUB | 2004/03/26 14:20 |
| – | 5 | 5571564.URPN. | USPAT | 2004/03/26 14:35 |
| – | 5 | ("3886683" \| "4263724" \| "5121560" \| "5471847" \| "5471927").PN. | USPAT | 2004/03/26 14:36 |
| – | 3 | 5571563.URPN. | USPAT | 2004/03/26 14:46 |
| – | 10 | ("3442211" \| "3676910" \| "3886683" \| "4369584" \| "4462169" \| "4476636" \| "4774771" \| "5111595" \| "5121560" \| "5184555").PN. | USPAT | 2004/03/26 14:48 |
| – | 1 | 5292298.pn. | USPAT; US-PGPUB | 2004/03/26 14:48 |
| – | 7 | 5292298.URPN. | USPAT | 2004/03/26 14:57 |
| – | 9 | ("3058731" \| "4071081" \| "4285107" \| "4593744" \| "4631792" \| "4683627" \| "4711291" \| "4781795" \| "4955268").PN. | USPAT | 2004/03/27 10:20 |